

## **APPENDIX J**

### **SEDIMENT REMOVAL 2005, DEAD CREEK SEGMENT F AND BORROW PIT LAKE INFORMATION**

**Borrow Pit Lake Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		BPL30-1	MDL	BPL30-2	MDL	BPL30-3	MDL	BPL30-4	MDL	BPL31-1	MDL	BPL31-2	MDL
Date Sampled		2/6/2006		2/6/2006		2/6/2006		2/6/2006		2/7/2006		2/7/2006	
Sample Location Description		Square #30 NW		Square #30 NE		Square #30 SW		Square #30 SE		Square #31 NW		Square #31 NE	
<b>Metals (USEPA Method 7470A)</b>													
<b>Analyte</b>	<b>RBC (mg/kg)</b>	<b>(mg/kg)</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>	
Mercury	0.18	<b><i>0.034 J</i></b>	0.00668	<b><i>0.042 J</i></b>	0.00668	<b><i>0.049</i></b>	0.00668	<b><i>0.014 J</i></b>	0.00668	<b><i>0.17</i></b>	0.00668	<b><i>0.029 J</i></b>	0.00668

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

***U and B*** - Result is an estimated value below the Reporting Limit (RL),  
 but greater than or equal to the Method Detection Limit (MDL); The  
 concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

Checked by: AMF

Reviewed by: MNH

**Borrow Pit Lake Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		BPL31-3		MDL	BPL31-4		MDL	BPL32-1		MDL	BPL32-2		MDL	BPL32-3		MDL	BPL33-1		MDL		
Date Sampled		2/7/2006			2/7/2006			2/15/2006			2/15/2006			2/15/2006			2/7/2006				
Sample Location Description		Square #31 SW			Square #31 SE			Sqaure #32 NW			Square #32 NE			Square #32 SW			Square #32 NW				
Metals (USEPA Method 7470A)																					
Analyte	RBC (mg/kg)	(mg/kg)			(mg/kg)			(mg/kg)			(mg/kg)			(mg/kg)			(mg/kg)				
Mercury	0.18	0.039 J			0.00668	U			0.00668	U N			0.00668	0.13 N			0.00668	0.13			0.00668

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL),  
 but greater than or equal to the Method Detection Limit (MDL); The  
 concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

Checked by: AMF

Reviewed by: MNH

**Borrow Pit Lake Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		BPL33-2	MDL	BPL33-3	MDL	BPL33-4	MDL	BPL34-1	MDL	BPL34-2	MDL	BPL34-3	MDL	BPL34-STKPLE	MDL
Date Sampled		2/7/2006		2/7/2006		2/7/2006		2/15/2006		2/16/2006		2/15/2006		2/22/2006	
Sample Location Description		Square #32 NE		Square #32 SW		Square #32 SE		Square #34 NW		Square #34 NE		Square #34 SW		East of Square #34	
<b>Metals (USEPA Method 7470A)</b>															
<b>Analyte</b>	<b>RBC (mg/kg)</b>	<b>(mg/kg)</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>	
Mercury	0.18	<b>0.031 J</b>	0.00668	<b>0.10</b>	0.00668	<b>0.015 J</b>	0.00668	<b>0.024 JN</b>	0.00668	<b>0.017 J</b>	0.00668	<b>0.036 JN</b>	0.00668	<b>0.024 J</b>	0.00668

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL),  
 but greater than or equal to the Method Detection Limit (MDL); The  
 concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

Checked by: AMF

Reviewed by: MNH

**Borrow Pit Lake Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		BPL36-1	MDL	BPL36-2	MDL	BPL36-3	MDL	BPL36-4	MDL	BPL38-1	MDL	BPL38-1B	MDL
Date Sampled		2/9/2006		2/9/2006		2/20/2006		2/22/2006		2/20/2006		2/20/2006	
Sample Location Description		Sqaure #36 NW		Sqaure #36 NE		Sqaure #36 SW		Sqaure #36 SE		Sqaure #38 NW		BPL38-1, 6" deeper	
<b>Metals (USEPA Method 7470A)</b>													
Analyte	RBC (mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.18	<b>0.17</b>	0.00668	<b>0.090</b>	0.00668	<b>0.12</b>	0.00668	<b>0.013 J</b>	0.00668	<b>0.20</b>	0.00668	<b>0.076</b>	0.00668

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL),  
 but greater than or equal to the Method Detection Limit (MDL); The  
 concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

Checked by: AMF

Reviewed by: MNH

**Borrow Pit Lake Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		BPL38-2	MDL	BPL38-2B	MDL	BPL38-3	MDL	BPL38-3B	MDL	BPL38-4	MDL	BPL38-4B	MDL	BPL38-STKPLE 2	MDL
Date Sampled		2/20/2006		2/20/2006		2/20/2006		2/20/2006		2/20/2006		2/20/2006		2/28/2006	
Sample Location Description		Sqaure #38 NE		BPL38-2, 6" deeper		Sqaure #38 SW		BPL38-3, 6" deeper		Sqaure #38 SE		BPL38-4, 6" deeper		East of Square #38	
Metals (USEPA Method 7470A)		<b>Excavated &amp; Removed</b>				<b>Excavated &amp; Removed</b>				<b>Excavated &amp; Removed</b>					
Analyte	RBC (mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.18	<b>0.20</b>	0.00668	<b>0.048</b>	0.00668	<b>0.30</b>	0.00668	<b>0.073</b>	0.00668	<b>0.24</b>	0.00668	U	0.00668	<b>0.033 J</b>	0.00668

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

**U and B** - Result is an estimated value below the Reporting Limit (RL),  
 but greater than or equal to the Method Detection Limit (MDL); The  
 concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

Checked by: AMF

Reviewed by: MNH

**Borrow Pit Lake Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		BPL49-1	MDL	BPL49-3	MDL	BPL49-3B	MDL	BPL49-STKPLE	MDL	BPL49-STKPLE 2	MDL	BPL49-STKPLE3	MDL	BPL49-STKPLE 4	MDL	
Date Sampled		2/22/2006		2/22/2006		2/22/2006		2/22/2006		2/28/2006		3/7/2006				
Sample Location Description		Sqaure #49 NW		Sqaure #49 SW		BPL49-3, 6" deeper		East of Square #49		BPL49-stckple, 6" deeper		BPL49-stckple, 1.5' deep		BPL49-stckple, 1.5' deep		
Metals (USEPA Method 7470A)				Excavated & Removed				Excavated & Removed		Excavated & Removed		Excavated & Removed		Excavated & Removed		
Analyte	RBC (mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Mercury	0.18		0.027 J	0.00668	0.38	0.00668	U	0.00668	0.093	0.00668	0.39	0.00668	0.18	0.00668	0.21 N	0.04100

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

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***U and B*** - Result is an estimated value below the Reporting Limit (RL),  
 but greater than or equal to the Method Detection Limit (MDL); The  
 concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.

Checked by: AMF

Reviewed by: MNH

**Borrow Pit Lake Summary of Soil Confirmation Sample Results**  
 Sauget Area 1 Dead Creek Sediment Removal Action  
 Sauget, Illinois

043-9670

Sample ID		BPL49-SP-4A	MDL	BPL49-SP-5A	MDL	BPL50-1	MDL	BPL50-2	MDL	BPL50-3	MDL	BPL50-4	MDL
Date Sampled		3/10/2006		3/10/2006		2/13/2006		2/13/2006		2/13/2006		2/15/2006	
Sample Location Description		BPL49-stockpile, 2.0' deep		East of BPL49 stockpile		Square #50 NW		Square #50 NE		Square #50 SW		Square #50 SE	
<b>Metals (USEPA Method 7470A)</b>													
<b>Analyte</b>	<b>RBC (mg/kg)</b>	<b>(mg/kg)</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>		<b>(mg/kg)</b>	
Mercury	0.18	<b>0.13</b>	0.00668	<b>0.063</b>	0.00668	<b>0.045</b>	0.00668	<b>0.067</b>	0.00668	<b>0.081</b>	0.00668	<b>0.16</b>	N 0.00668

Results in ***bold italics*** denote detections.

RBC - Risk based concentration for Dead Creek

MDL - Method detection limit

NA - Not analyzed; mercury was sampled on a 50-ft spacing.

Flags and Qualifiers

U - Analyte was not detected at or above the Method Detection Limit (MDL).

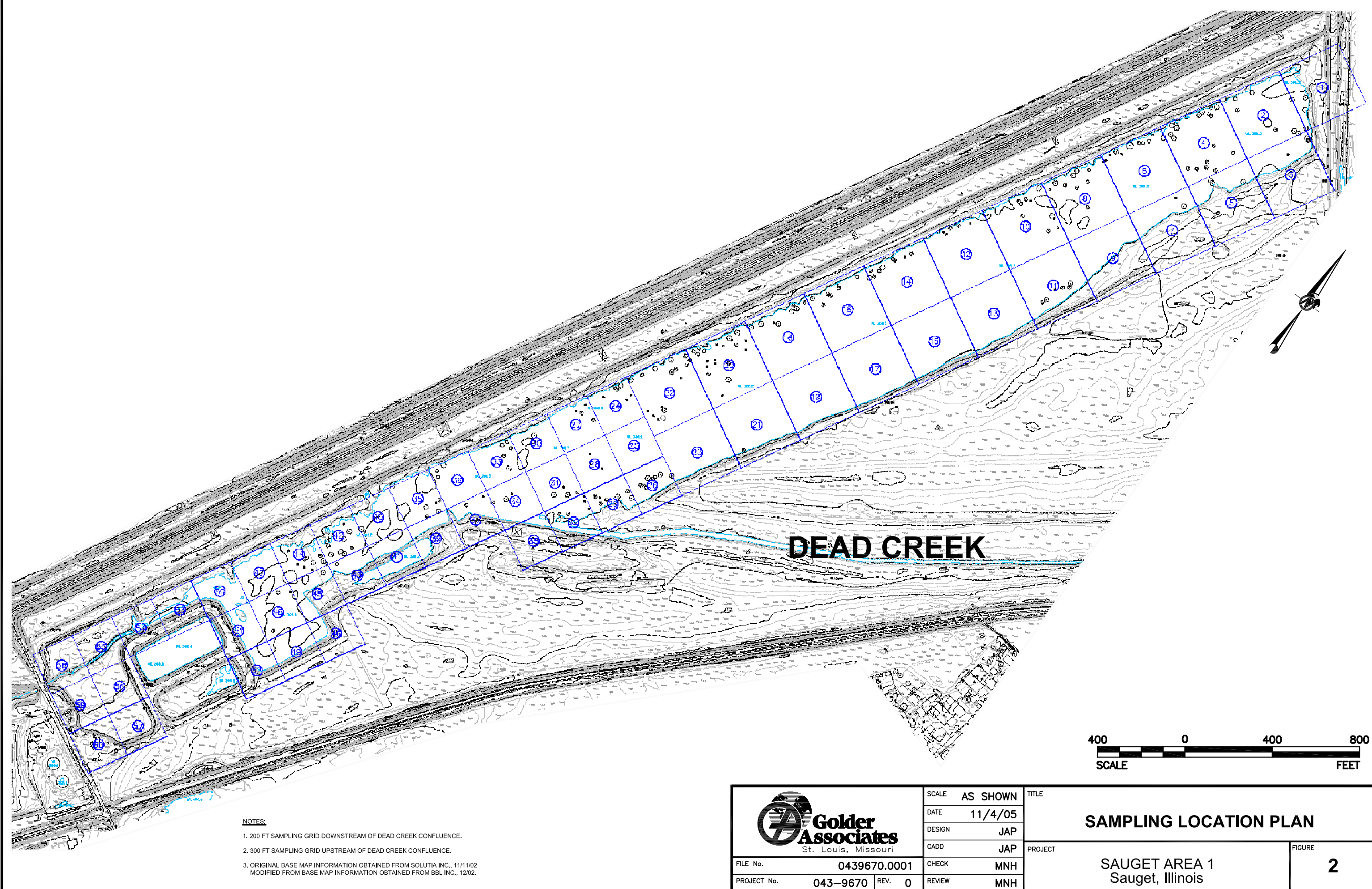
**U and B** - Result is an estimated value below the Reporting Limit (RL),  
 but greater than or equal to the Method Detection Limit (MDL); The  
 concentration is an approximate value.

N - Spiked Analyte recovery is outside stated control limits.


Checked by: AMF

Reviewed by: MNH





- NOTES:**
- 1. 200 FT SAMPLING GRID DOWNSTREAM OF DEAD CREEK CONFLUENCE.
  - 2. 300 FT SAMPLING GRID UPSTREAM OF DEAD CREEK CONFLUENCE.
  - 3. ORIGINAL BASE MAP INFORMATION OBTAINED FROM SOLUTIA INC., 11/11/02  
MODIFIED FROM BASE MAP INFORMATION OBTAINED FROM BBL INC., 12/02.

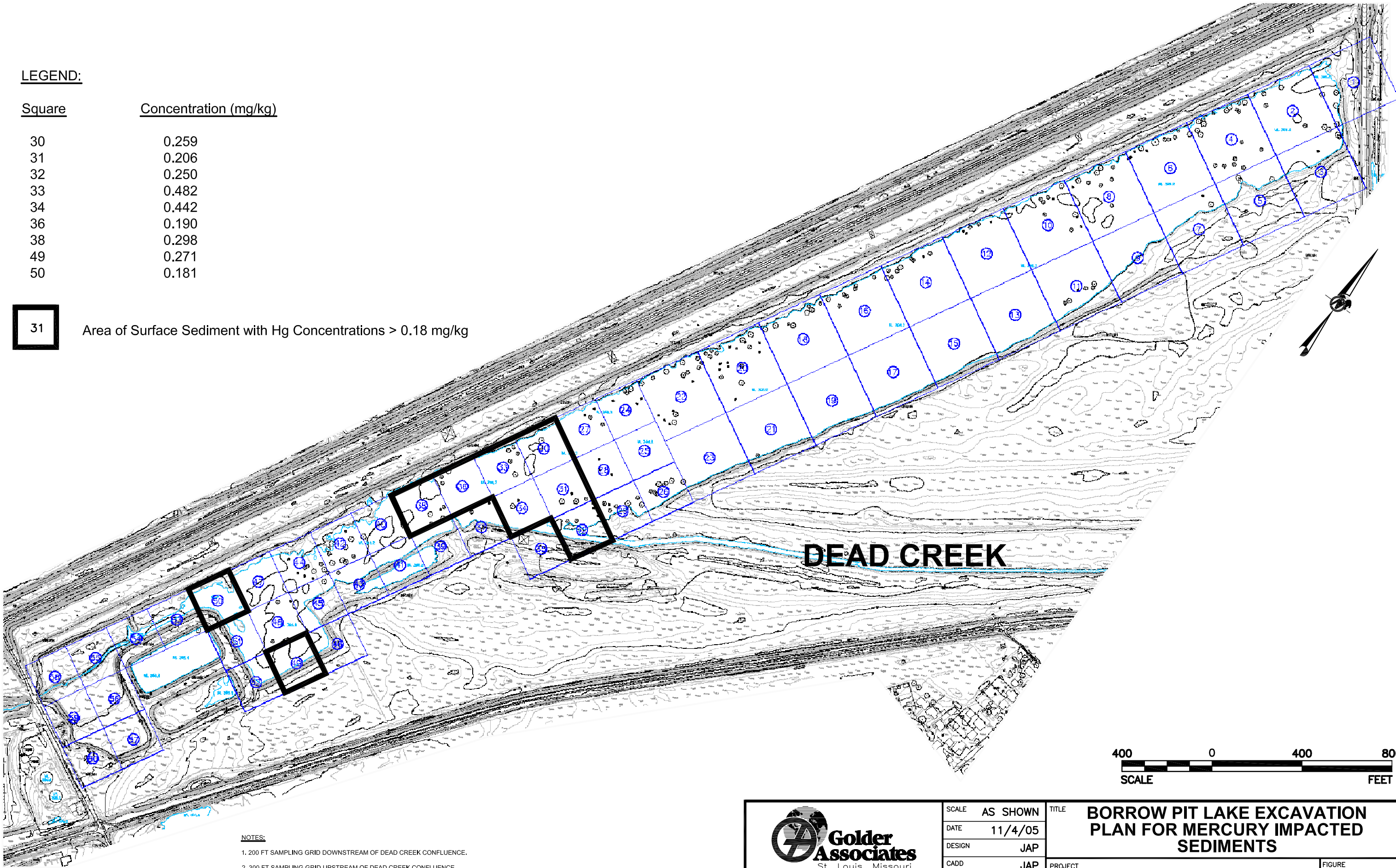
 <b>Golder Associates</b> St. Louis, Missouri	SCALE	AS SHOWN	TITLE  <b>SAMPLING LOCATION PLAN</b>	
	DATE	11/4/05		
	DESIGN	JAP		
	CADD	JAP	PROJECT  SAUGET AREA 1 Sauget, Illinois	FIGURE  <b>2</b>
	CHECK	MNH		
FILE No.	0439670.0001	REV.	0	
PROJECT No.	043-9670	REV.	0	
		REVIEW	MNH	

LEGEND:


Square	Concentration (mg/kg)
30	0.259
31	0.206
32	0.250
33	0.482
34	0.442
36	0.190
38	0.298
49	0.271
50	0.181

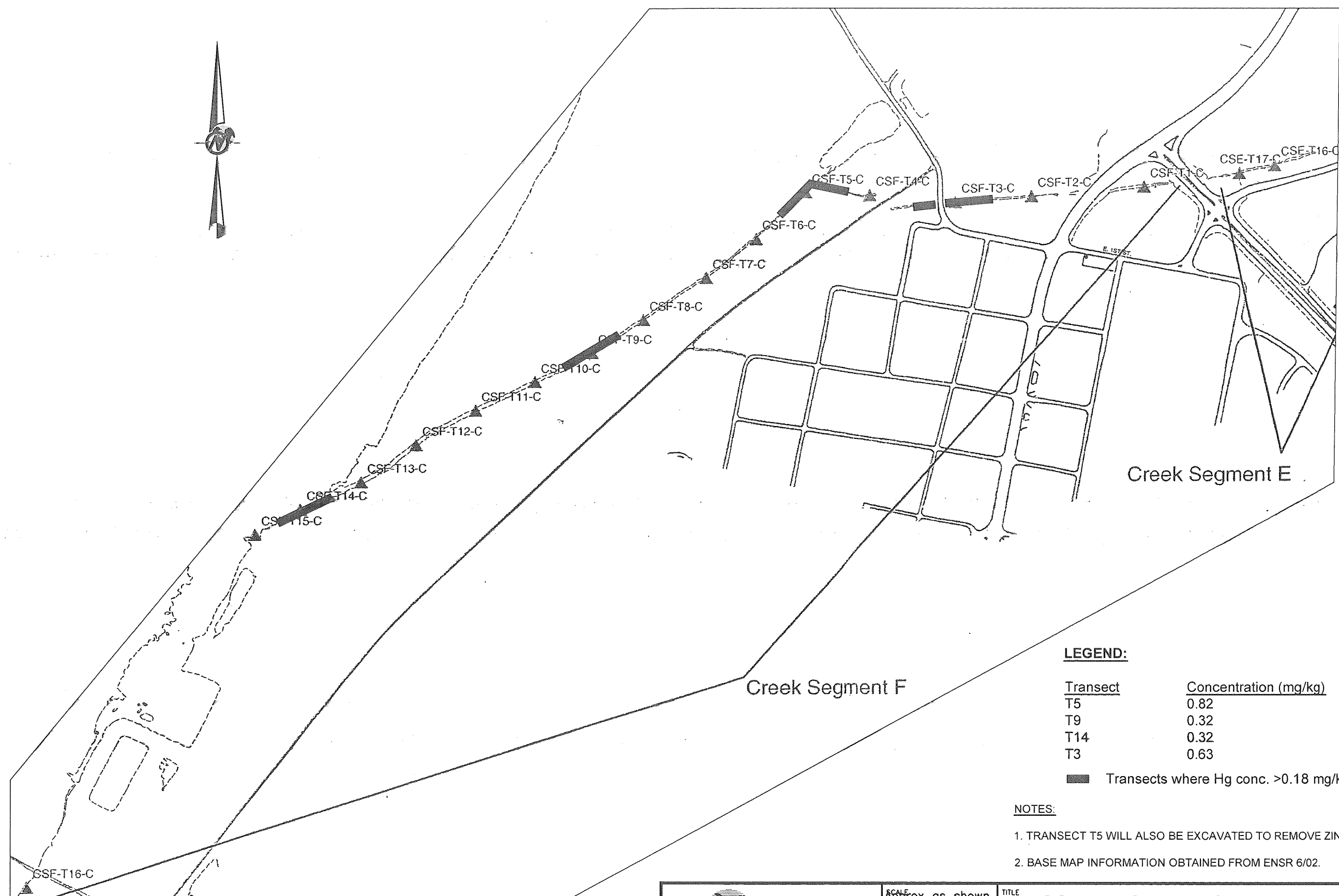
31

Area of Surface Sediment with Hg Concentrations > 0.18 mg/kg



NOTES:  
1. 200 FT SAMPLING GRID DOWNSTREAM OF DEAD CREEK CONFLUENCE.  
2. 300 FT SAMPLING GRID UPSTREAM OF DEAD CREEK CONFLUENCE.  
3. ORIGINAL BASE MAP INFORMATION OBTAINED FROM SOLUTIA INC., 11/11/02  
MODIFIED FROM BASE MAP INFORMATION OBTAINED FROM BBL INC., 12/02.

 Golder Associates St. Louis, Missouri	SCALE	AS SHOWN	TITLE <b>BORROW PIT LAKE EXCAVATION PLAN FOR MERCURY IMPACTED SEDIMENTS</b>	
	DATE	11/4/05		
	DESIGN	JAP		
	CADD	JAP	PROJECT SAUGET AREA 1 Sauget, Illinois	FIGURE <b>3</b>
	CHECK	MNH		
FILE No.	0439670.0001	REV.	0	
PROJECT No.	043-9670	REV.	0	
		REVIEW	MNH	



**LEGEND:**

<u>Transect</u>	<u>Concentration (mg/kg)</u>
T5	0.82
T9	0.32
T14	0.32
T3	0.63

■ Transects where Hg conc. >0.18 mg/kg.

**NOTES:**

1. TRANSECT T5 WILL ALSO BE EXCAVATED TO REMOVE ZINC.
2. BASE MAP INFORMATION OBTAINED FROM ENSR 6/02.

500 0 500 1,000  
 APPROX.SCALE FEET



FILE No. 0439670.0002  
 PROJECT No. 043-9670 REV. 1

SCALE: Approx as shown  
 DATE 11/7/05  
 DESIGN JAP  
 CADD JAP  
 CHECK MNH  
 REVIEW MNH

**CS-F EXCAVATION PLAN FOR MERCURY IMPACTED SOILS**

PROJECT SAUGET AREA 1  
 Sauget, Illinois

FIGURE 4

Table 6  
Dead Creek Segment Borrow Pit Lake  
Summary of Soil Confirmation Samples  
Solutia Inc. - Sauget, Illinois

033-9626

Sample		BPL32-3	BPL33-1	BPL33-2	BPL33-3	BPL33-4	BPL34-1
Creek Segment		BPL	BPL	BPL	BPL	BPL	BPL
Date Sampled		2/15/2006	2/7/2006	2/7/2006	2/7/2006	2/7/2006	2/15/2006
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6	0.18	0.14 N	0.13	0.031 J	0.10	0.015 J
Sample		BPL34-2	BPL34-3	BPL-HGSED-35	BPL36-1	BPL36-2	BPL36-3
Creek Segment		BPL	BPL	BPL	BPL	BPL	BPL
Date Sampled		2/16/2006	2/15/2006	5/8/2003	2/9/2006	2/9/2006	2/20/2006
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6	0.18	0.017 J	0.036 J N	0.0746	0.17	0.09
Sample		BPL36-4	BPL-HGSED-37	BPL38-1B	BPL38-2B	BPL38-3B	BPL38-4B
Creek Segment		BPL	BPL	BPL	BPL	BPL	BPL
Date Sampled		2/22/2006	5/8/2003	2/20/2006	2/20/2006	2/20/2006	2/20/2006
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6	0.18	0.013 J	0.0930	0.076	0.048	0.073
Sample		BPL-HGSED-39 (0-0.5)	BPL-HGSED-40 (0-0.5)	BPL-HGSED-41 (0-0.5)	BPL-HGSED-42 (0-0.5)	BPL-HGSED-43 (0-0.5)	BPL-HGSED-44 (0-0.5)
Creek Segment		BPL	BPL	BPL	BPL	BPL	BPL
Date Sampled		5/8/2003	5/8/2003	5/8/2003	5/8/2003	5/8/2003	5/8/2003
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6	0.18	0.0648	0.160	0.0852	0.0553	0.0962
Sample		BPL-HGSED-65 (0-0.5)	BPL-HGSED-45 (0-0.5)	BPL-HGSED-46 (0-0.5)	BPL-HGSED-47 (0-0.5)	BPL-HGSED-48 (0-0.5)	BPL-HGSED-98 (0-0.5)
Creek Segment		BPL DUP 44	BPL	BPL	BPL	BPL	BPL DUP 48
Date Sampled		5/8/2003	5/8/2003	5/8/2003	5/13/2003	5/13/2003	5/13/2008
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6	0.18	0.147	0.0371	0.0684	0.0731	0.0679
Sample		BPL49-1	BPL49-3B	BPL50-1	BPL50-2	BPL50-3	BPL50-4
Creek Segment		BPL	BPL	BPL	BPL	BPL	BPL
Date Sampled		2/22/2006	2/22/2006	2/13/2006	2/13/2006	2/13/2006	2/15/2006
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6		0.027 J	0.00668 U	0.045	0.067	0.081
Sample		BPL-HGSED-51 (0-0.5)	BPL-HGSED-52 (0-0.5)	BPL-HGSED-53 (0-0.5)	BPL-HGSED-54 (0-0.5)	BPL-HGSED-55 (0-0.5)	BPL-HGSED-56 (0-0.5)
Creek Segment		BPL	BPL	BPL	BPL	BPL	BPL
Date Sampled		5/13/2003	5/13/2003	5/8/2003	5/9/2003	5/9/2003	5/9/2003
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6	0.18	0.0616	0.0584	0.0593	0.168	0.0268
Sample		BPL-HGSED-56 (0-0.5)	BPL-HGSED-57 (0-0.5)	BPL-HGSED-58 (0-0.5)	BPL-HGSED-59 (0-0.5)	BPL-HGSED-60 (0-0.5)	
Creek Segment		BPL DUP 56	BPL	BPL	BPL	BPL	
Date Sampled		5/9/2003	5/8/2003	5/8/2003	5/9/2003	5/13/2003	
Metals							
Analyte		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Mercury		0.0471	0.0261	0.0337	0.0434	0.0553	

Notes:  
Sample data designated BPL-HGSED were provided to Golder by Solutia Inc. in *Draft Sauget Area 1 Time Critical Sediment Removal Action Soil and Sediment Removal Work Plan Dead Creek Segment F and Borrow Pit Lake*, Sauget and Cahokia, Illinois, dated December 8, 2005. Sample data designated BPL were sampled by Golder in 2006.  
Only detected analytes are listed.  
Flags and Qualifiers  
J - Result is an estimated value below the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL). The concentration is an approximate value.  
N - Spiked analyte recovery was outside stated control limits.  
U - Analyte was not detected at or above the Method Detection Limit  
ND - Not Detected.  
NS - Not Sampled.  
BPL - Borrow Pit Lake  
Prepared by: JLW Date: 10/1/2008  
Checked by: AWG Date: 10/2/2008  
Reviewed by: MNH Date: 10/6/2008



Table 6  
Dead Creek Segment Borrow Pit Lake  
Summary of Soil Confirmation Samples  
Solutia Inc. - Sauget, Illinois

033-9626

Sample	BPL-HGSED-01 (0-0.5)		BPL-HGSED-02 (0-0.5)	BPL-HGSED-03 (0-0.5)	BPL-HGSED-04 (0-0.5)	BPL-HGSED-05 (0-0.5)	BPL-HGSED-06 (0-0.5)
Creek Segment	BPL		BPL DUP 01	BPL	BPL	BPL	BPL DUP 04
Date Sampled	5/12/2003		5/12/2003	5/6/2003	5/6/2003	5/6/2003	5/6/2003
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6	0.18	0.106	0.0825	0.0502	0.0107	0.0317
0.0298							

Sample	BPL-HGSED-05 (0-0.5)		BPL-HGSED-06 (0-0.5)	BPL-HGSED-07 (0-0.5)	BPL-HGSED-08 (0-0.5)	BPL-HGSED-09 (0-0.5)	BPL-HGSED-10 (0-0.5)
Creek Segment	BPL		BPL	BPL	BPL	BPL	BPL
Date Sampled	5/12/2003		5/6/2003	5/12/2003	5/6/2003	1/0/1900	5/6/2003
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6	0.18	0.0586	0.0267	0.0524	0.0611	0.0845
0.0339							

Sample	BPL-HGSED-11 (0-0.5)		BPL-HGSED-12 (0-0.5)	BPL-HGSED-13 (0-0.5)	BPL-HGSED-14 (0-0.5)	BPL-HGSED-02 (0-0.5)	BPL-HGSED-15 (0-0.5)
Creek Segment	BPL		BPL	BPL	BPL	BPL DUP 14	BPL
Date Sampled	5/6/2003		5/6/2003	5/6/2003	5/7/2003	5/7/2003	5/6/2003
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6	0.18	0.0517	0.0649	0.0597	0.0737	0.0425
0.107							

Sample	BPL-HGSED-16 (0-0.5)		BPL-HGSED-17 (0-0.5)	BPL-HGSED-18 (0-0.5)	BPL-HGSED-19 (0-0.5)	BPL-HGSED-20 (0-0.5)	BPL-HGSED-21 (0-0.5)
Creek Segment	BPL		BPL	BPL	BPL	BPL	BPL
Date Sampled	5/7/2003		5/13/2003	5/7/2003	5/13/2003	5/7/2003	5/13/2003
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6	0.18	0.0352	0.0950	0.125	0.151	0.133
0.144							

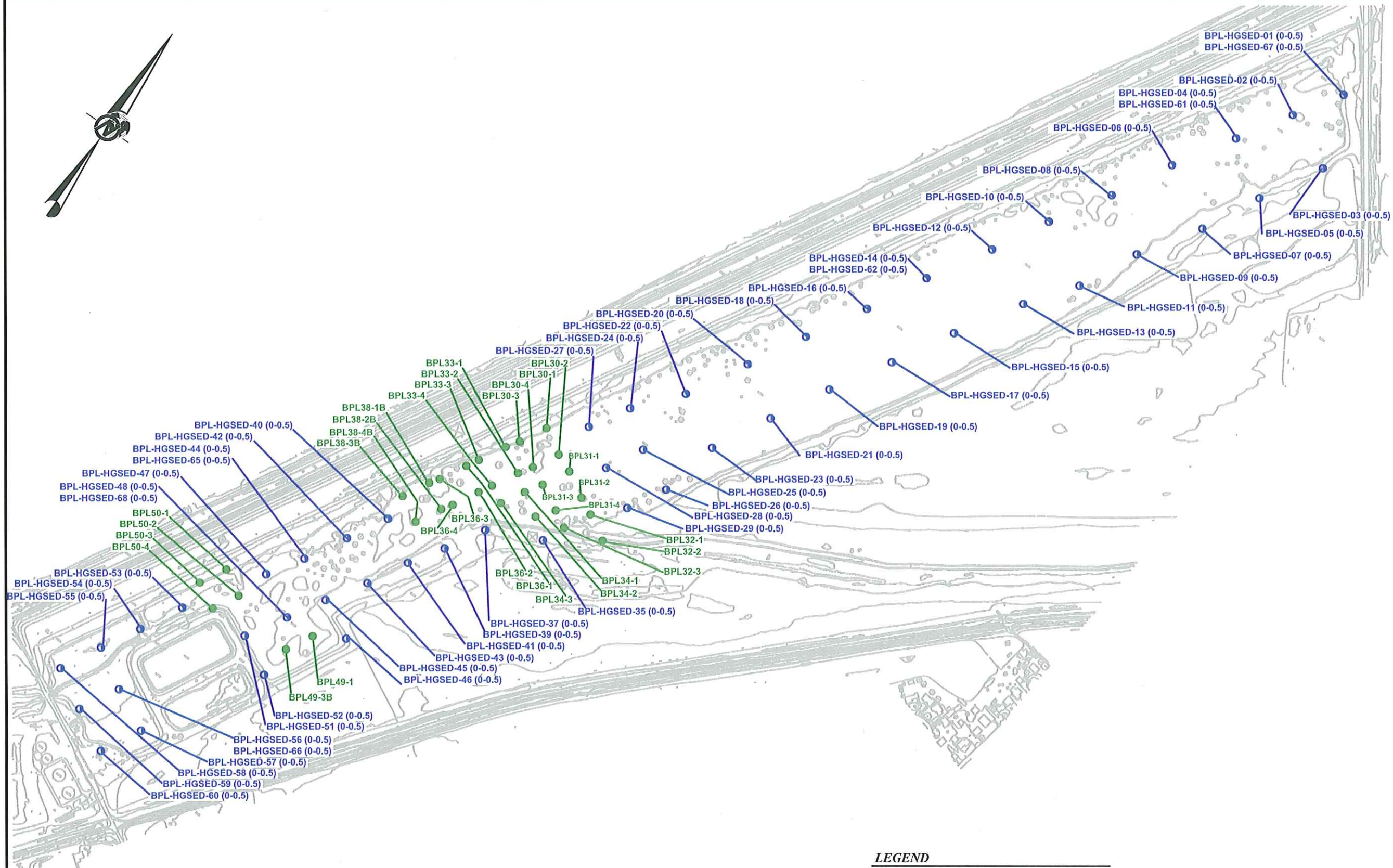
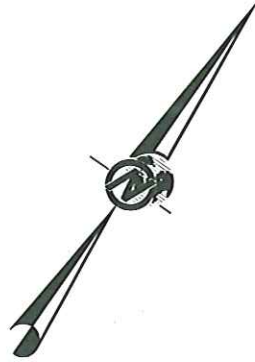
Sample	BPL-HGSED-22 (0-0.5)		BPL-HGSED-23 (0-0.5)	BPL-HGSED-24 (0-0.5)	BPL-HGSED-25 (0-0.5)	BPL-HGSED-26 (0-0.5)	BPL-HGSED-27 (0-0.5)
Creek Segment	BPL		BPL	BPL	BPL	BPL	BPL
Date Sampled	5/6/2003		5/7/2003	5/6/2003	5/7/2003	5/7/2003	5/7/2003
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6	0.18	0.129	0.125	0.146	0.140	0.101
0.176							

Sample	BPL-HGSED-28 (0-0.5)		BPL-HGSED-29 (0-0.5)	BPL30-1	BPL30-2	BPL30-3	BPL30-4
Creek Segment	BPL		BPL	BPL	BPL	BPL	BPL
Date Sampled	5/7/2003		5/7/2003	2/8/2006	2/6/2006	1/26/2006	2/6/2006
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6		0.138	0.132	0.034 J	0.042 J	0.049
0.014 J							

Sample	BPL31-1		BPL31-2	BPL31-3	BPL31-4	BPL32-1	BPL32-2
Creek Segment	BPL		BPL	BPL	BPL	BPL	BPL
Date Sampled	2/7/2006		2/7/2006	2/7/2006	2/7/2006	2/15/2006	2/15/2006
Metals							
Analyte	CAS No.	RBC (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Mercury	7439-97-6	0.18	0.17	0.029 J	0.039 J	0.00668 U	0.00668 U N
0.13 N							

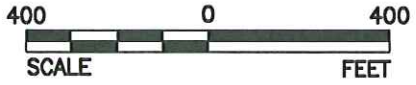
Notes:  
Sample data designated BPL-HGSED were provided to Golder by Solutia Inc. in *Draft Sauget Area 1 Time Critical Sediment Removal Action Soil and Sediment Removal Work Plan Dead Creek Segment F and Borrow Pit Lake, Sauget and Cahokia, Illinois*, dated December 8, 2005.  
Sample data designated BPL were sampled by Golder in 2006.  
Only detected analytes are listed.  
Flags and Qualifiers  
J - Result is an estimated value below the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL). The concentration is an approximate value.  
N - Spiked analyte recovery was outside stated control limits.  
U - Analyte was not detected at or above the Method Detection Limit  
ND - Not Detected.  
NS - Not Sampled.  
BPL - Borrow Pit Lake  
Prepared by: JLW Date: 10/1/2008  
Checked by: AVG Date: 10/2/2008  
Reviewed by: MNH Date: 10/6/2008





**LEGEND**

- = 2003 Sampling Locations
- = 2006 Sampling Locations
- = Sample Locations that have been excavated



Original Map Provided By URS Corp., Drawing "Borrow Pit Lake", 11/10/04.



SOLUTIA INC  
DEAD CREEK  
Sauget, Illinois

**DRAFT  
BORROW PIT LAKE  
SAMPLE LOCATIONS**

TITLE			
PROJECT No. 033-9626			
FILE No. 0339626C006			
REV. 0	SCALE AS SHOWN		
DESIGN	AWG	9/17/08	
CADD	JCW	9/18/08	
CHECK	AWG	10/2/08	
REVIEW	MNH	10/3/08	
FIGURE		7	